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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/337,619DATE: 07/08/1999
TIME: 15:34:44

Input Set: I337619.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

1 <110> APPLICANT: Krieg, Arthur M.
2 <120> TITLE OF INVENTION: Methods of Treating Cancer Using
3 Immunostimulatory Oligonucleotides
4 <130> FILE REFERENCE: C1039/7021/HCL
5 <140> CURRENT APPLICATION NUMBER: US/09/337,619
6 <141> CURRENT FILING DATE: 1999-06-21
7 <150> EARLIER APPLICATION NUMBER: US 08/960,774
8 <151> EARLIER FILING DATE: 1997-10-30
9 <150> EARLIER APPLICATION NUMBER: US 08/738,652
10 <151> EARLIER FILING DATE: 1996-10-30
11 <150> EARLIER APPLICATION NUMBER: US 08/386,063
12 <151> EARLIER FILING DATE: 1995-02-07
13 <150> EARLIER APPLICATION NUMBER: US 08/276,358
14 <151> EARLIER FILING DATE: 1994-07-15
15 <160> NUMBER OF SEQ ID NOS: 123
16 <170> SOFTWARE: FastSEQ for Windows Version 3.0
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20 <213> ORGANISM: Artificial Sequence
21 <220> FEATURE:
22 <223> OTHER INFORMATION: Synthetic Oligonucleotide
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28 <213> ORGANISM: Artificial Sequence
29 <220> FEATURE:
30 <223> OTHER INFORMATION: Synthetic Oligonucleotide
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36 <213> ORGANISM: Artificial Sequence
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41 <210> SEQ ID NO 4
42 <211> LENGTH: 15
43 <212> TYPE: DNA
44 <213> ORGANISM: Artificial Sequence

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46 <223> OTHER INFORMATION: Synthetic Oligonucleotide
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52 <213> ORGANISM: Artificial Sequence
53 <220> FEATURE:
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57 <210> SEQ ID NO 6
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59 <212> TYPE: DNA
60 <213> ORGANISM: Artificial Sequence
61 <220> FEATURE:
62 <223> OTHER INFORMATION: Synthetic Oligonucleotide
63 <400> SEQUENCE: 6
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65 <210> SEQ ID NO 7
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67 <212> TYPE: DNA
68 <213> ORGANISM: Artificial Sequence
69 <220> FEATURE:
70 <223> OTHER INFORMATION: Synthetic Oligonucleotide
71 <400> SEQUENCE: 7
72 tccatgacgt tcctgatgct 20
73 <210> SEQ ID NO 8
74 <211> LENGTH: 20
75 <212> TYPE: DNA
76 <213> ORGANISM: Artificial Sequence
77 <220> FEATURE:
78 <223> OTHER INFORMATION: Synthetic Oligonucleotide
79 <400> SEQUENCE: 8
80 tccatgagct tcctgagtct 20
81 <210> SEQ ID NO 9
82 <211> LENGTH: 20
83 <212> TYPE: DNA
84 <213> ORGANISM: Artificial Sequence
85 <220> FEATURE:
86 <223> OTHER INFORMATION: Synthetic Oligonucleotide
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91 <212> TYPE: DNA
92 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
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107 <212> TYPE: DNA
108 <213> ORGANISM: Artificial Sequence
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122 <223> OTHER INFORMATION: m5c
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131 <220> FEATURE:
132 <221> NAME/KEY: modified_base
133 <222> LOCATION: (13)...(13)
134 <223> OTHER INFORMATION: m5c
W-->OK 135 <400> SEQUENCE: 14
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139 <212> TYPE: DNA
140 <213> ORGANISM: Artificial Sequence
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154 <223> OTHER INFORMATION: m5c
155 <220> FEATURE:
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158 <223> OTHER INFORMATION: m5c
159 <220> FEATURE:
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162 <223> OTHER INFORMATION: m5c
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164 atngactctn gagngttctc
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167 <212> TYPE: DNA
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174 <223> OTHER INFORMATION: m5c
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176 atngactctc gagcggttctc
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179 <212> TYPE: DNA
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183 <220> FEATURE:
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185 <222> LOCATION: (18)...(18) /
186 <223> OTHER INFORMATION: m5c
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190 <211> LENGTH: 20
191 <212> TYPE: DNA
192 <213> ORGANISM: Artificial Sequence
193 <220> FEATURE:
194 <223> OTHER INFORMATION: Synthetic Oligonucleotide

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RAW SEQUENCE LISTING
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201 <220> FEATURE:
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203 <400> SEQUENCE: 20
204      gagaacgctg gaccttccat                                20
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206 <211> LENGTH: 20
207 <212> TYPE: DNA
208 <213> ORGANISM: Artificial Sequence
209 <220> FEATURE:
210 <223> OTHER INFORMATION: Synthetic Oligonucleotide
211 <400> SEQUENCE: 21
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214 <211> LENGTH: 20
215 <212> TYPE: DNA
216 <213> ORGANISM: Artificial Sequence
217 <220> FEATURE:
218 <223> OTHER INFORMATION: Synthetic Oligonucleotide
219 <400> SEQUENCE: 22
220      gagaacgctc gaccttcgat                                20
221 <210> SEQ ID NO 23
222 <211> LENGTH: 20
223 <212> TYPE: DNA
224 <213> ORGANISM: Artificial Sequence
225 <220> FEATURE:
226 <223> OTHER INFORMATION: Synthetic Oligonucleotide
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228      gagcaagctg gaccttccat                                20
229 <210> SEQ ID NO 24
230 <211> LENGTH: 20
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232 <213> ORGANISM: Artificial Sequence
233 <220> FEATURE:
234 <223> OTHER INFORMATION: Synthetic Oligonucleotide
235 <220> FEATURE:
236 <221> NAME/KEY: modified_base
237 <222> LOCATION: (6)...(6)
238 <223> OTHER INFORMATION: m5c
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242 <211> LENGTH: 20
243 <212> TYPE: DNA
244 <213> ORGANISM: Artificial Sequence

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Input Set: I337619.RAW

Line	? Error/Warning	Original Text
124	W "N" or "Xaa" used: Feature required	gctagangtt agcgt
136	W "N" or "Xaa" used: Feature required	gctagacggt agngt
164	W "N" or "Xaa" used: Feature required	atngactctn gagngttctc
176	W "N" or "Xaa" used: Feature required	atngactctc gagcgttctc
188	W "N" or "Xaa" used: Feature required	atcgactctc gagcgttntc
240	W "N" or "Xaa" used: Feature required	gagaangctg gaccttccat
252	W "N" or "Xaa" used: Feature required	gagaacgctg gacnttccat
296	W "N" or "Xaa" used: Feature required	tccatgtngg tcctgatgct
308	W "N" or "Xaa" used: Feature required	tccatgtcgg tnctgatgct
408	W "N" or "Xaa" used: Feature required	gctagacntt agtgt
420	W "N" or "Xaa" used: Feature required	tccatgtngt tcctgatgct
1000	W "N" or "Xaa" used: Feature required	atcgactctc gagngttctc
1012	W "N" or "Xaa" used: Feature required	gctagangtt agtgt
1060	W "N" or "Xaa" used: Feature required	tccatgtngt tcctgtngtt